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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/590,876	07/10/2007	Hartmut Schumacher	10191/4350	3753
26646 KENYON & K	7590 07/06/201 ENYON LLP	EXAMINER		
ONE BROADY		RUTLAND WALLIS, MICHAEL		
NEW YORK, NY 10004			ART UNIT	PAPER NUMBER
			2836	
			MAIL DATE	DELIVERY MODE
			07/06/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)		
	10/590,876	SCHUMACHER ET AL.		
Office Action Summary	Examiner	Art Unit		
	MICHAEL RUTLAND WALLIS	2836		
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status				
Responsive to communication(s) filed on <u>22 AI</u> This action is FINAL . 2b)☑ This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro			
Disposition of Claims				
4) ☐ Claim(s) 7-11 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 7-11 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	wn from consideration.			
9) ☐ The specification is objected to by the Examine 10) ☑ The drawing(s) filed on <u>02 August 2006</u> is/are: Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the Ex	a) \square accepted or b) \square objected the drawing(s) be held in abeyance. See ion is required if the drawing(s) is object.	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s) 1) Notice of References Cited (PTO-892)	4) 🔲 Interview Summary			
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:			

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 4/22/10 has been entered.

Response to Arguments

Applicant's arguments have been considered but are moot in view of the new grounds of rejection. Applicant's amendments are sufficient to withdraw the previous 112 rejections made to the claims.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States

only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 7 and 10 are rejected under 35 U.S.C. 102(e) as being anticipated by Rothleitner et al. (U.S. Pat. No. 6,731,023)

With respect to claim 7 and 10 Rothleitner teaches a device for supplying an ignition current from an energy reserve capacitor to at least one ignition power module, comprising: a voltage regulator (item 80 and controlled switching of item 60) connected to the energy reserve capacitor (item 52) by a polarity reversal diode (item 58) and at least one current source (item 56), the voltage regulator being connected to the at least one ignition power module (item 12) such that the voltage regulator sets a voltage (see controlled switching col. 6 lines 30-35) at the at least one ignition power module at a predetermined level (col. 6 line 15); and a control module (item 20) which selectively triggers (see switching of item 60) the voltage regulator to alternatively operate as a safety semiconductor (see over current and over temperature inputs).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Rothleitner et al. (U.S. Pat. No. 6,731,023) in view of Smith et al. (U.S. Pat. No.

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5,845,729) Rothleitner teaches the voltage regulator is disconnectable (via removal of power or disabling the connection of the power from the supply) and allows an electric current to be supplied to the at least one ignition power module, however Rothleitner does not teach the use of an external microcontroller. Smith teaches the use of a microcontroller (item 28) external to the drive and power modules. It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Rothleitner to supply power to the ignition module as a function of the microcontroller in order to allow for connection of sensors and other feedback to be monitored to determine when to control the power to the ignition module.

Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Rothleitner et al. (U.S. Pat. No. 6,731,023) in view of Smith et al. (U.S. Pat. No. 5,845,729) in view of Ravas, Jr. et al. (U.S. Pat. No. 5,459,449) Rothleitner as modified above teaches the device of claim 8, however does not teach the further limitation of diagnosis as recited. Ravas 449 teaches a diagnosis (item 44) is provided for a safety semiconductor (item 20 or 34). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Rothleitner to include the diagnosis of the device in order to allow for testing to insure proper operation of the device.

Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over Rothleitner et al. (U.S. Pat. No. 6,731,023) in view of Ravas, Jr. et al. (U.S. Pat. No. 5,459,449) Rothleitner teaches the device of claim 7, however does not teach the further limitation of diagnosis as recited. Ravas 449 teaches at least one current source (item 30) assigned to the voltage regulator (item 22) for diagnosis (col. 2 line 65) of the

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at least one ignition power module. It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Rothleitner to diagnose the device in order to allow for testing to insure proper operation of the device.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Rutland-Wallis whose telephone number is 571-272-5921. The examiner can normally be reached on Monday-Thursday 7:30AM-6:00PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jared Fureman can be reached on 571-272-2391. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Michael Rutland-Wallis/ Examiner, Art Unit 2836 Application/Control Number: 10/590,876

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